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**Weapons Proliferation and
Organized Crime: The Russian
Military and Security Force
Dimension**

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INSTITUTE FOR NATIONAL SECURITY STUDIES
U.S. Air Force Academy, Colorado



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**WEAPONS PROLIFERATION AND
ORGANIZED CRIME: THE RUSSIAN
MILITARY AND SECURITY FORCE
DIMENSION**

Graham H. Turbiville, Jr.

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FOREWORD

We are pleased to publish this tenth volume in the *Occasional Paper* series of the USAF Institute for National Security Studies (INSS). This monograph represents the results of research conducted during fiscal year 1995 under the auspices of a grant from INSS.

The proliferation of weapons of all types, especially weapons of mass destruction (WMD), has emerged as a primary international security challenge in the post-Cold War era. This paper examines the critical issue of weapons proliferation in a unique way by focusing on how criminality in the former Soviet Union (FSU) exacerbates this problem. Undoubtedly, this dimension of the weapons proliferation problem does not receive enough attention, is not well understood, and presents extremely difficult policy-making challenges. As the author points out, many very worrisome proliferation ingredients are already present in the FSU, including huge stockpiles of conventional arms and WMD; widespread corruption, turmoil, and uncertainty in military and security establishments; and the potential for huge profits from state and nonstate markets. Adding organized crime to this volatile mix creates an explosive recipe and marks the FSU as the primary source of weapons proliferation for years to come.

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PETER L. HAYS, Lt Col, USAF
Director, USAF Institute for National Security Studies

EXECUTIVE SUMMARY

In the changed international security environment of the post-Cold War era, concerns related to weapons proliferation--especially weapons of mass destruction (WMD)--have taken center stage. One dimension of this problem that has not received enough attention is how organized crime facilitates weapons proliferation worldwide. In this context, the former Soviet Union (FSU) has emerged as the world's greatest counterproliferation challenge. This region, after all, contains the best developed links among organized crime, military and security organizations, and weapons proliferation.

The dissolution of the Soviet Union provided a fertile seedbed for the development of serious and pernicious criminal activity of all types. Crime in the FSU has increased by orders of magnitude. More ominously, organized crime has emerged as one of the strongest actors in the FSU. According to some official Russian estimates, organized crime may now control some 40,000 state and private organizations and over half of all economic entities within the FSU. The flourishing illegal trade in weapons, both within and outside of the FSU, is one of the most serious reflections of this overall criminal environment. Most importantly, analysts soon reach one inescapable conclusion concerning this trade in weapons: *Russian military and security forces are the principle source of arms becoming available to organized crime groups, participants in regional conflict, and corrupt state officials engaged in the black, gray, and legal arms markets in their various dimensions.*

The post-Cold War explosion of criminal activity within Russian military and security organizations resulted from the nearly complete breakdown of Soviet socioeconomic structures as well as the widespread corruption within these organizations during the Soviet era. Criminal elements

have taken advantage of the unique resources and expertise of the military and security organizations and, in return, have provided nontraditional means of support for these organizations in the power vacuum that resulted from the Soviet Union's demise. Analysts both within and outside of Russia have increasingly come to recognize an extensive and expanding overlap between Russian "power ministries" and the criminal world.

The flourishing illegal trade in conventional weapons is the clearest and most tangible manifestation of the close links between Russian power ministries and criminal organizations. The sheer magnitude and pervasive nature of this problem underscore its seriousness. Some 81 tons of munitions, for example, had allegedly disappeared by the time Russian forces completed their withdrawal from East Germany. Moreover, attempts to centralize and control sanctioned Russian weapons exports via Rosvooruzheniye, the new consolidated state armaments company, have proven less than successful. Specialized military and security organizations, such as the notorious Security Service of the President, seem to be increasingly operated as private militias to protect the illegal arms trade and various other criminal activities. A final clear indication of the magnitude of the conventional arms proliferation problem within the FSU is the seemingly endless supply of sophisticated weapons available to the Chechen rebels.

The magnitude of the WMD proliferation problem from the FSU is less clear and less tangible, but the potential is certainly very worrisome. There have been many open reports of small-scale fissile material smuggling out of the FSU, and Chechen rebels planted radioactive material in Moscow's Ismailov Park. However, the existence of a much more dangerous, larger-scale, and better-organized Russian "nuclear mafia" remains a topic of debate. The 12th Main Directorate of the Ministry of Defense (12th GUMO) is charged with the security and transportation of fissile materials within Russia. With the

aid of the United States' Cooperative Threat Reduction (CTR) program, the 12th GUMO is attempting to cope with this enormous challenge. It is unclear, however, whether it will be able to deal with the most serious threats, such as attacks by organized criminals or terrorists.

The situation with regard to the proliferation of chemical weapons (CW) usually receives less attention but may be more serious. With an acknowledged stockpile of 40,000 metric tons of chemical agents, the potential for CW proliferation out of the FSU, especially via organized crime channels, is enormous. This potential was ominously foreshadowed by the March 1995 Tokyo subway nerve gas attack, which revealed numerous personnel and hardware links between the Russian CW establishment and the Aum Shinrikyo cult.

Overall, this study reaches four main conclusions. First, Russian military and security organizations are the primary sources for the flourishing illegal weapons trade within and outside of the FSU. Second, military criminality is playing an integral role in facilitating the illegal weapons trade. Third, weapons proliferation is fostered by extensive ties between criminal Russian military organizations and criminal elements within the Russian civil sector. Finally, the aforementioned factors raise substantial doubts about the avowed security of the Russian nuclear and CW stockpiles. These conclusions have enormous implications for American and Western policy makers as they attempt to craft mechanisms like the CTR to deal effectively with the threat of weapons proliferation from the FSU.

WEAPONS PROLIFERATION AND ORGANIZED CRIME:
THE RUSSIAN MILITARY AND SECURITY FORCE
DIMENSION

by
Graham H. Turbiville, Jr.

Introduction

As the end of the 20th Century approaches, the widespread availability and distribution of all types of weapons is fueling armed conflicts, organized criminal activity, and random violence in many regions of world. Arms trafficking--whether black market, gray market, or the injudicious legal sale of weapons--has long been a prominent security concern for those areas of the world most affected. While weapons trafficking during most of the post-World War II era has been assessed in a Cold War context, the dissolution of the Soviet Union at the end of 1991 marked a watershed for this already serious problem. Vast new weapons stockpiles and willing distributors unrestrained by Cold War political and ideological limitations entered local, regional, and international arms markets with considerable fervor.

The end of the Cold War also marked the start of a new era of concern about the proliferation of weapons of mass destruction (WMD) and the evolving role of state and nonstate actors in the acquisition, spread, and

employment of WMD. The former Soviet Union (FSU)--especially Russia, which inherited the bulk of WMD stockpiles, manufacturing potential, and technologies--became a central focus of regional and world proliferation concerns. While Russian political and military spokesmen officially expressed confidence about the security of WMD systems, they also voiced private concerns about the ability of state institutions to fully protect WMD stockpiles and know-how. At the same time, a combination of wild rumors, frequent seizures of low-grade radioactive materials, and a handful of more serious proliferation cases indicated that the potential for serious WMD leakages from Russia and the FSU was beginning to be realized.

Across the spectrum of arms trafficking from small arms to WMD-associated systems, organized crime has come to play a substantial role. This criminal involvement takes various forms, including traditional civil-sector groups, shadowy commercial ventures, and corrupt government officials. In this regard as well, Russia and the FSU have emerged as central concerns, since crime and corruption in the wake of the Soviet bloc's dissolution quickly began to shape and influence every dimension of public and private life. Military establishments in the region--shrinking, impoverished, and demoralized--were far from immune to these pressures and, in the case of the Russian armed forces in particular, have become major participants in the illegal diversion of weapons.

Overall, the confluence of volatile developments in Russia and its periphery--the presence of large conventional and WMD stockpiles and technologies, high levels of crime and corruption, turmoil in large military and security establishments, and the potential for huge profits from state and nonstate markets--identify the region as a focus of weapons proliferation for years to come. The role of organized crime in arms trafficking is manifested in the form of traditional criminal groups, criminalized government organizations and commercial structures, and corrupt individuals.

This study considers both conventional and WMD arms proliferation and addresses those criminal structures and corrupt state institutions associated with these issues. The focus is on Russia, however, since it is the most important potential source of weapons and technologies and the state most deeply affected by criminal endeavors. More specifically, the study examines the phenomenon of widespread Russian *military* criminality, the association of *military* organizations with criminal groups, and the extent to which the Russian *military* plays a role in black and gray conventional arms markets. After establishing a pattern of systemic Russian *military* criminality associated with conventional arms trafficking, the study addresses those *military* organizations most closely involved with nuclear and chemical weapons development, storage, and employment and identifies potential

vectors within the Russian armed forces for the diversion of WMD materials and technologies.

The Russian Criminal Environment

Newly established regimes in Russia, other FSU states, and Eastern Europe face serious problems that seem to defy easy solutions. They include daunting economic and resource constraints, complex political and social problems, weakened and demoralized military and security establishments, and a host of transnational security concerns, such as organized crime, narcotics trafficking, terrorism, and environmental issues. Conflicts sparked by national and ethnic tensions have been joined by unprecedented waves of legal and illegal immigration, including refugees from conflict areas. Immigrant populations are often seen as bases where foreign criminal or terrorist elements can hide and operate.

In short, Russia and a number of states in the FSU and Eastern Europe have become fertile seedbeds for the most pernicious forms of random and organized crime. Throughout these regions, the interests of local, regional, and international criminal groups have coincided with the appearance of disrupted economies, requirements for hard currency, and reduced law enforcement effectiveness. Corruption in particular has become

a familiar disruption to reform programs ranging from the creation of sound financial institutions to the restructuring of military and police forces.

The Russian criminal environment is a specific example of the corrosive effect that widespread criminality can have on state security institutions throughout the region.¹ Overall crime rates have continued to climb despite dramatic increases beginning in the late 1980s. The Ministry of the Interior (MVD) recently indicated that overall crime in the first two months of 1995 had increased by some five percent in comparison with the same period in 1994, with murders up ten percent. Former Russian Interior Minister Viktor Yerin also indicated that the total number of crimes was nearly half again as great as published figures, if one considered those crimes that were unreported. Other figures from mid-March 1995 indicated that juvenile crime had increased by 76 percent over the last six years, a factor that is having a considerable effect on the quality of the military conscript pool among other more obvious issues.²

It is organized crime, however, that poses the greatest threat to Russian national cohesiveness and stability. While estimates vary, a Russian specialist recently indicated that some 4,300 criminal gangs exist in Russia, the most powerful of which have defined spheres of criminal activity to include arms and drug trafficking, gambling, banking, petroleum exports, automobile theft and smuggling, precious metals trading, and a host of other

ventures. For gangs in the Moscow area, some 15 percent were thought to have international ties, as do a substantial number outside of Moscow.³

Official 1994 Russian estimates of organized criminal penetration of state institutions indicate that criminal groups controlled some 40,000 state and private organizations, including hundreds of state enterprises, joint-stock companies, cooperatives, banks, and markets.⁴ The hundreds of Russian banks and financial groups are particularly central to criminal endeavors. According to a 1995 Ministry of Internal Affairs report, "criminal structures in the state now control over 50% of economic entities."⁵ The organizational disarray, lack of effective legislation and authority, shifting political affiliations, and pervasive criminal penetration present in Russia's financial system have all combined to create rich criminal opportunities.⁶

The influence of crime in political systems throughout the region is pervasive. In this regard, the possibility that increasing numbers of criminals may win election or appointment to executive, legislative, or judicial positions has been a continuing concern. In the case of the Russian Parliament and regional legislatures, this concern appears well-founded, given criminal resources and the coercive measures used so effectively in other spheres.⁷ The potential for criminal penetration of Russian legislative bodies is illustrated by Interior Minister Anatoly Kulikov's identification of some 85 criminals running for Parliament in the fall of 1995. Kulikov also announced

that some 1,600 linkages between criminals and high government officials were being investigated and estimated that 30-50 percent of criminal profits were used to bribe state officials.⁸

Nevertheless, determining who is influenced by organized crime is rarely easy, and political agendas run side-by-side with real and alleged criminal activities. In Russia, accusations that "reformist political circles" are heavily influenced by organized criminal agendas mask the actual intentions behind the reformers' "concern for human rights, the constitution, [and] the criminal and procedural code." Such accusations, therefore, require critical examination, as do charges directed at representatives of the military-industrial sector, former Communists, and other political targets.⁹

Within this overall environment, and fully reflective of it, the trade in weapons is flourishing. While there are various estimates of the number of uncontrolled arms circulating in the region, all of them put the number in the tens of millions. Aside from the number and variety of circulating arms, however, it is the increasingly blurred distinction among black, gray, and legal arms trading that constitutes the greatest danger for the mid to long term. Arms disseminated through black, gray, and legal channels are provided to a variety of recipients and range from custom handguns delivered to mafia kingpins to helicopter and fixed-wing aviation resources delivered to drug cartels abroad to bulk deliveries of weapons and equipment to

paramilitary groups and other nation-states. These weapons are provided along routes that often are used jointly by drug and other contraband smugglers. The main providers include government institutions, specially established business ventures and joint-stock companies, corrupt bureaucrats and military officers directly and indirectly involved in official arms sales, and organized criminal groups.¹⁰ With regard to Russia per se, there is a fundamental conclusion that analysts soon reach when examining the trade in weapons: *Russian military and security forces remain the principal source of arms becoming available to organized crime groups, participants in regional conflicts, and corrupt state officials engaged in the black, gray, and legal arms markets in their various dimensions.*

It is instructive, however, to address military criminality more generally before looking at specific linkages among Russian military and security forces, crime, and weapons proliferation.

Military Crime

In some states of the FSU and Eastern Europe, and most dramatically in Russia, the deepening association of military and security establishments with criminal enterprises has been especially alarming. While military crime possesses some special features, it reflects problems in the larger society. It clearly is an understatement, as one representative of the

Russian Military Procuracy put it last year, that "the army organism reacts sensitively to the changes in the socioeconomic structure."¹¹

Amid societies and state institutions that are increasingly undermined by crime, military and security establishments in the FSU and Eastern Europe have been faced with a combination of powerful incentives, opportunities, and marketable resources that are facilitating the development of military-criminal organizations. At the same time, crime is on the rise in other public and private sectors of these fledgling democracies. This is particularly true among active duty military and security forces--as well as retired or discharged military and security personnel--who are faced with diminished prospects and low public regard.

Typically, military and security forces have ready access to valuable state property; the land, air, and sea transport to move that property; and specialized skills that criminal organizations need and can put to good use. Because of severe economic constraints, military units also began working more closely with civilian economic enterprises in many countries and concluding a range of contracts and business ventures on their own. On the one hand, civil economic elements required direct military support to continue functioning, while on the other, military units required new arrangements for food, clothing, and other basic support.¹²

In this overall environment, military crime has come to incorporate activities ranging from individual crimes of opportunity to sophisticated organized crime, including close interaction with foreign groups and gangs. As one 1995 Russian assessment put it regarding the relationship between the “criminal world” and the “power ministries” (as the Defense, Interior, Federal Security Service, and other Russian security ministries are termed), “At one fine point, two lines--the power ministries and the criminal world--intersected. . . . The criminal world was admitted to secret facilities. The power ministries--to the criminal world.”¹³

These still-evolving relationships have reduced the reliability of many military units (including those deployed in peacekeeping missions), undermined law enforcement efforts at every level, contributed to the “criminal resource base,” and generated variations of organized crime as it appears in the region and beyond.

Military Crime and the Conventional Arms Trade

Developments subsequent to the dissolution of the USSR could scarcely have been better designed to sustain and promote military criminality. It should be emphasized, however, that when the Russian armed forces were created in May 1992, criminal enterprises had already been flourishing in its Soviet predecessor.¹⁴ This clearly involved “privatized”

arms trade activities and a breakdown of centralized control over armaments.

The theft of weapons in the Russian military, for example, increased by 50 percent in 1989 and continued to mount in 1990.¹⁵ On a larger scale, in January 1991 United Nations personnel enforcing the arms embargo against Iraq found substantial quantities of Russian arms and other military items hidden on a Soviet merchant ship in the Red Sea. Some arms were even concealed in the captain's cabin. While the incident seemed a puzzling contradiction to the USSR's avowed support of UN sanctions, in retrospect it stands as an early indicator of uncontrolled arms trafficking for profit.¹⁶

Clearly, the earliest and most visible indication that criminal trends in the Soviet military would continue in the Russian armed forces was the widespread theft, diversion, and unauthorized sale of weapons, ammunition, and equipment. Providing effective physical security for Russian military ordnance depots and other facilities became, and remains at the end of 1995, an unsolved problem. The quality of individuals assigned to guard these facilities has been severely criticized, and remedial programs to stem losses from theft or unauthorized sale have floundered in the face of resource shortages, compelling criminal profits, and the near indifference of military personnel who face a spectrum of organizational and personal problems.¹⁷

The consequent hemorrhage of military arms from depots, units, and Defense Ministry production facilities has had a number of variants.

Weapons, munitions, and other equipment are stolen from storage sites by civilian criminals, often in collusion with military sentries and other service personnel. Facilities are also successfully attacked or breached by criminal groups that neutralize or kill sentries and seize arms. This is a problem that has been particularly serious in areas near Russia's periphery. In addition, weapons are sold outright, individually and in lots of varying sizes, by officers and other military personnel stationed in Russia and abroad.¹⁸

In the Western Group of Forces (WGF) in East Germany, other groups of forces in Eastern Europe, and units in the Baltic states, the sale of individual weapons by Soviet/Russian troops became notorious beginning in the late 1980s and continued throughout the troops' phased withdrawal. On a larger scale, an underground trade in heavy equipment ranging from armored vehicles to Mig aircraft has also been widely reported.¹⁹ This included the alleged disappearance of some 81 tons of ammunition from WGF depots in early 1994. The charge was compatible with other WGF resource diversions but drew heated denials by the WGF commander-in-chief, Colonel General Matvey Burlakov. General Burlakov was later dismissed from the Army under a cloud of suspicion for a host of alleged criminal activities, including the diversion of huge quantities of arms from his command.²⁰ Analogous military-criminal associations in arms and equipment trafficking by Russian

military officers have been evident in the Baltic states, the Crimea-based Black Sea Fleet, Moldova, the Caucasus, and Central Asia.²¹

A similar environment has existed inside Russia. In 1993, for example, four officers ranging in rank from major to colonel were arrested in Moscow for selling weapons. This rather unremarkable incident illustrated how smoothly profit had replaced ideology, since three of these officers were from the Humanitarian Academy of the Armed Forces (formerly the Lenin Military-Political Academy).²² The commander and deputy commander of the 10th Air Defense Army were charged with weapons thefts and sales as well.²³ In 1994, the chief of the Smolensk Federal Counterintelligence Service (Federal'naya Sluzhba Kontrrazvedky--FSK) Directorate pointed to the dozens of guns, grenades, and rounds of ammunition confiscated by Chekists (the traditional Soviet name for security service personnel) from the "mafia in uniform."²⁴

A specific illustration of how such weapons are disposed of is provided by the Russian Military Procuracy, which cited the case of a lieutenant colonel in the Rocket and Artillery Armaments Service of a Siberian Military District (MD) formation who sold AK-74 automatic weapons, antitank grenade launchers, and pistols to the Russian Kontinent Company, Ltd.²⁵ Similarly, a major general and fellow officers in the Ural MD acquired military pistols and sold them on the civilian market.²⁶ These

kinds of sales continue to flourish around many Russian garrisons and serve as a conduit for arms to criminal and extremist organizations within and outside of Russia. Overall, as 1995 progressed the MVD still considered the Russian military to be “the main and stable source” of weapons supplied to criminal groups and participants in ethnic conflict around Russia’s periphery.²⁷

While the selling of weapons and munitions by officers and other military members remains endemic and well-documented, it is the diversion of profits from legal and gray market sales and the outright execution of large-scale black market sales for personal gain that are among the biggest areas of Russian military thievery. It is instructive, therefore, to sketch briefly some of the dimensions, complexities, linkages, and ambiguities of these sales and the principal actors involved.

The sanctioned weapons trade in Russia has resided in state-designated “companies,” weapons manufacturing enterprises, and elements of the armed forces, all of which are authorized to sell weapons abroad. The use of international joint-stock companies and other commercial firms to set up or facilitate transactions also has been a feature of Russian arms sales. In an ostensible effort to impose order on the free-wheeling, uncoordinated, and multiparticipant “legal” arms market that arose from the ruins of the USSR, Russian President Boris Yeltsin on 18 November 1993 signed an edict that

created the state company Rosvooruzheniye (a contraction that means

“Russian armaments”).²⁸ The edict read in part as follows:

In order to provide for a state monopoly on exports and imports of arms and military equipment for the Russian Federation, Oboroneksport, Spetsvneshteknika, and the GUSK [Main Directorate of Special Contacts] shall be withdrawn from the Ministry of Foreign Economic Relations and merged into the Rosvooruzheniye company and placed under the jurisdiction of the Russian Federation Government.²⁹

On the surface, this move seemed a well-grounded attempt to regain control over an important source of state revenue. However, because of the huge hard-currency profits involved, key officials, politicians, bureaucrats, middlemen, lobbyists, and others made intense efforts to associate themselves with the arms import-export business. Military and security force personnel were often at the center of this activity.

Lieutenant General Viktor Samoylov, a supporter of former Defense Minister Pavel Grachev and a long-time member of the Defense Ministry's Main Cadres Directorate who had no experience in arms sales, was named Rosvooruzheniye director.³⁰ The Most financial group (its shadowy dealings, security service affiliations, and political rivalries are discussed further below) became one of several authorized banks, despite never having been involved in arms sales. Prominent figures who became associated with Rosvooruzheniye have included former Soviet Defense Minister Marshal of Aviation Yevgeniy Shaposhnikov, who was named Yeltsin's presidential

representative to the new state company,³¹ First Deputy Prime Minister O. Soskovets, who became Chairman of the Interdepartmental Commission on Military and Technical Cooperation, the organization that supervises Rosvooruzheniye; and the notorious former chief of the Security Service of the President (Sluzhba Bezopasnosti Prezidenta--SBP), Major General Aleksandr Korzhakov, who was granted responsibility for the company's "observance of state interests."³²

As with earlier arrangements, a prominent question about Russia's arms sales under the new system soon became, "where is all the money going?" While officials associated with Rosvooruzheniye flourished personally, the return of revenues to the Russian Federation remained limited. Widespread suspicions were raised by the shady business dealing of men like Korzhakov. That is, aside from his dark political and conspiratorial presence in the Kremlin, Korzhakov had interwoven business dealings with his official duties. Aside from his Rosvooruzheniye links, Korzhakov has been tied to the Logovaz financial concern. Logovaz grew out of VAZ, the Soviet state vehicle manufacturer, and among other ventures has attempted to profit from oil export revenues that were to be put back "into hunting lodges and other property."³³ An incident at the end of 1994 illustrates how agendas involving arms sales, financial deals, political rivalries, and personal animosities routinely combine.

On 2 December 1994, Korzhakov directed his SBP bodyguard forces to raid the headquarters of Most. Most, while an authorized bank for Rosvooruzheniye and central to many other business ventures involving senior political officials, also was affiliated with Korzhakov's political rivals. The raid was carried out by some 30 armed and masked SBP personnel as well as elements of the Kremlin's Main Protection Directorate (Glavnoye Upravleniye Okhrany--GUO), then headed by a Korzhakov ally, Lieutenant General Mikhail Barsukov. An effort to halt the search of Most offices by the then-designated FSK chief in Moscow, Yevgeniy Savostyanov (an ally of Most director Vladimir Gusinskiy), was rebuffed by SBP/GUO forces and led shortly thereafter to Savostyanov's dismissal by Yeltsin.³⁴ Multiple explanations for the raid have been advanced which, according to concerned members of the Association of Russian Banks, is not unprecedented.³⁵ In any event, the Main Military Procuracy announced in May 1995 that criminal investigations of the incident had been dropped for lack of evidence that any violation of authority had taken place.³⁶ Clearly, however, the pursuit of personal profit and power are imperatives as strong as any of the purely political motivations or machinations suggested.

Such goings-on by state security and law enforcement organizations render a term like "conflict of interest" wholly inadequate and suggest to Russian critics that state companies like Rosvooruzheniye are largely personal

preserves; their profits are parceled out to selected members of the leadership and the leadership's financial and business affiliates. Even prominent military figures like Marshal Shaposhnikov, an officer who embodied a tradition of ostensibly honorable military service, have been the targets of sarcastic speculation regarding their evident wealth amid the poverty of those officers and enlisted personnel whose well-being was their personal and institutional responsibility.³⁷

The very nature of foreign weapons sales; the poorly-documented revenues generated and their disposition; the controversial nature of political, financial, and other figures associated with the new state company; and links to commercial and financial ventures and deals (some through predecessor organizations) earned Rosvooruzheniye the nickname "Ros-vor," a play on the Russian words meaning "Russian thief." Charges and countercharges involving so-called "demo-thieves" (allegedly criminal democratic reformers) in and out of Yeltsin's administration have made tracing the flow of weapons and profits both a major issue and challenge. Examples include Rosvooruzheniye; uniformed criminals in the military and security forces; predatory arms-manufacturing firms of the military-industrial sector who saw their profits threatened by the creation of Rosvooruzheniye; other unscrupulous state companies, commercial enterprises, and financial firms involved in the arms trade; and investigative reporters. It is evident,

however, that irregular arms and equipment sales abroad are carried out with seeming "state authorization" and that much of the hard currency generated is not finding its way into Russian Federation coffers.³⁸

Russia's severe "capital flight" problems appear to have involved the diversion of arms sales or military equipment revenues and associated ventures. Cyprus banks, for example, have been favored Russian choices for large cash deposits since 1992. Arms have been a frequent Russian commodity, generating large sums of money.³⁹ In mid-summer 1994, a self-admitted Russian arms trader who traveled locally in a chauffeured limousine stayed at a Limassol, Cyprus, hotel. At the same time, a Cypriot banker said he believed two Russians who deposited large quantities of cash in his bank were former Russian Army generals. In the view of one Cypriot banker:

Russia is bankrupt and can't generate this kind of cash. All money that's coming from Moscow is illegal because of Russia's exchange control regulations. But we're talking of millions and that can only come from illegal arms sales, most probably to Iran and Iraq.⁴⁰

Rosvooruzheniye did not remain the only official weapons trader for long, despite the rationale behind its creation. In May 1994, just six months after a presidential decree consolidated new arms sales in one state company, the Russian government granted permission for weapons manufacturers to export arms and conclude agreements with foreign partners. Under this apparent contradiction of state policy, Rosvooruzheniye would still set prices

but not retain its position as sole deal-maker for new weapon system sales. According to Shaposhnikov, the new regulations would be implemented gradually. He also pointed to the pressing need for Russia to fill an extraordinary gap and “develop a law on arms trade!”⁴¹ The effect of this new arrangement on Russian arms sales and the increasingly tainted reputation of Rosvooruzheniye was far from clear, since the state company seemed to operate much as before. Nevertheless, though the current Rosvooruzheniye General Director, Aleksandr Kotyolkin, announced that foreign arms sales of at least \$2.5 billion were expected in 1995 (an \$800 million increase over the previous years’ sales figures), his April 1995 announcement followed on the heels of documents showing Rosvooruzheniye criminality.

More specifically, the published materials dealt with a Rosvooruzheniye audit that “exposed a slump in the volume of arms exports, tax evasion, underpriced sales, the financing of commercial firms from the company's current capital, and fabulous benefits paid to employees.”⁴² The charges largely concerned actions under former director Lieutenant General Viktor Samoylov, whom Kotyolkin replaced in November 1994. Since Kotyolkin and a number of his colleagues were members of Rosvooruzheniye, their culpability remains to be determined. In addition, competition between Grachev's Defense Ministry (MoD) and Rosvooruzheniye over arms sales

authority suggests to some Russian observers that leaked audit reports may have been directed at Kotyolkin's supervisor and Grachev's enduring rival, Aleksandr Korzhakov.⁴³ Indeed, Grachev wasted little time after the scandal broke in proposing that the MoD be given "monopoly right to the arms trade."⁴⁴ While the MoD evidently lost this battle for Russia's huge arms profits, efforts to impose "normal" state controls over arms sales continue.

Among the most recent rounds in this effort was the fall 1995 decision to allow a number of weapon and equipment producers to sell their products abroad, a move that made earlier decisions in this regard more explicit. Seven military-industrial production enterprises were granted this privilege, including the Rostvertol joint-stock company ("Mi" series helicopters), the Izhmash joint-stock company (Kalashnikov assault rifles and other weapons), and the Antey enterprise (air defense systems). As one commentator concluded, "this means in effect that Rosvooruzheniye forfeits completely its monopoly on exporting Russian arms."⁴⁵ As with past arms sale issues in Russia, this remains to be seen, as do the effects of further decentralizing an already corrupt and poorly managed effort.

The Russian armed forces for some time have been directly involved with the sale of "used" arms and equipment, as well as the provision of security assistance. In this regard, the Voyentekh State Armament and Military Equipment Sales Company was established in the summer of 1992 at

the behest of Defense Minister Grachev. The idea was for Voyentekh to “export equipment and armaments at the disposal of the Ministry of Defense” and use the money to build housing for servicemen.⁴⁶ Rather than selling newly manufactured weaponry like Rosvooruzheniye, Voyentekh’s “more modest” role has been to sell surplus materiel from MoD organizations like the Main Rocket and Artillery Directorate (Glavnoye Raketno-Artilleriyskoye Upravleniye--GRAU) and the Main Armor-Tank Directorate (Glavnoye Bronetankovoye Upravleniye--GBTU). Other participants in this aspect of arms sales are the General Staff, which determines the kinds of equipment that are excess and available for sale, and various commercial companies and joint ventures which may be used to facilitate transactions. Some 97 percent of the proceeds from this continuing arms sale program were to go to the military housing fund.⁴⁷ However, these programs have been the target of continuing allegations of corruption. Charges concern the personal enrichment of active and former officers involved in the sales. Questions about the underfunded and substandard military housing effort also abound.⁴⁸

In addition, it has been equipment already in military inventories that has found its way into the hands of criminals, parties to ethno-national conflict, irregular armed groups, and virtually any other kind of customer with an ability to pay.⁴⁹

The proposed sale of two ships from the Pacific Fleet--the Minsk and Novorossiysk aircraft carriers--is a case in point. While these vessels were to be sold to the Republic of Korea (ROK), supposedly for salvage, critics have noted that the ROK has no facilities for this purpose. Rather, it was thought these ships would ultimately make their way to the People's Republic of China (PRC) for dismantling, thus improperly transferring various ship-building technologies that the PRC has wanted for some time. Whatever the accuracy of these suspicions, the role of the Kompass-1 joint venture in this transaction is notable. Kompass-1 was designated an intermediary for the sale. It was established by the parent Russian-Korean Kompass Company, whose members include former Chief of the Soviet General Staff Moiseyev, former Commander-in-Chief of the Soviet Navy Admiral Vladimir Nikolayevich Chernavin, and former Soviet Navy (and Pacific Fleet) Chief of Rear Services Vice Admiral Makhonin.⁵⁰ The familiar pattern of former senior officers and their active duty partners profiting from questionable equipment sales elicited the following understated observation from a Russian observer: "Such a distinguished constellation of stars makes it doubtful that the percentage promised by General Grachev for the sale of the ships will be fully used for the Pacific Fleet's social needs."⁵¹

The Russian MoD's role in foreign arms aid has also involved the Main Directorate for International Military Cooperation (Glavnoye

Upravleniye Mezhdunarodnogo Voyennogo Sotrudnichestva--GUMVS), which oversees military-technical cooperation (i.e., security assistance programs that include vetting arms sales and providing training and support to foreign military clients).⁵² In exercising these responsibilities, the directorate (whose responsibilities formerly resided in the General Staff's 10th Main Directorate) has fallen into criminal activities of various types.⁵³ Perhaps the most notable public example was the dismissal of Major General Vladimir Georgiyevich Ul'yanov, chief of the GUMVS' Hard Currency Economic Service. In an agreement with Oboroneksport, one of Rosvooruzheniye's parent organizations, he illegally received some \$80,000 worth of consumer goods.⁵⁴ The criminal opportunities available to GUMVS personnel may have quite direct or only peripheral relationships to arms and other security assistance transactions, but GUMVS' access, resources, and mandate clearly have been well-exploited.

Among the most recent controversies over the diversion of military resources is the question of how armed groups in Chechnya acquired such large stocks of arms. The sustained intensity of fighting in Chechnya highlights the fact that Chechen weapons stockpiles were substantial. The existence of such large arms inventories became a sensitive political issue centered on the question of "who armed Chechen President Dzhokar Dudayev?" Some Russian military and government officials have asserted

that Dudayev acquired weapons by looting and stealing from Russian military depots in Chechnya during the troubled 1991-1992 period.⁵⁵ Others point to complex Soviet/Russian political machinations and conspiracies running from Moscow to the Caucasus.

According to this latter view, the goals of Russian government factions were somehow furthered by the voluntary transfer (at Shaposhnikov's order) of large arms stocks to Dudayev and by the abandonment of all Russian inventories (with Grachev's acquiescence) upon Russia's humiliating withdrawal from Chechnya in June 1992. Proffered motives for these actions include Russian "democrats" attempting to undermine support for the "Emergency Committee's" August 1991 coup attempt by winning over Dudayev and the Chechen leadership, Russian efforts to maintain clandestine arms routes to Abkhazia, the hope that Chechens would use the weapons against South Ossetians, and payment for the continued use of Grozny airport as an international drug-smuggling stopover for Russian aircraft.⁵⁶

More important in the view of some analysts is how the Chechens continued to receive substantial quantities of armaments. The most compelling explanation is that arms were sold to the Chechens by Russian military officials. More specifically, Russian presidential advisors Emil Pain and Arkady Popov assessed in a February 1995 report that Dudayev acquired arms by buying them from "smart traders in military uniforms," and that

other criminal actions by officials in Moscow may have taken place as well, to include acquiescence toward drug smuggling.⁵⁷

In any event, the overt start of hostilities in December 1994 did not slow the sale of arms to Chechens by the Russian military. Individual Chechen fighters continued to buy weapons and ammunition directly from individual Russian soldiers deployed in Chechnya, while wealthy Chechens acquired bulk quantities from more organized Russian military traders.⁵⁸ As regards other arms supply routes, the MVD reported in April 1995 that it was investigating the attempted delivery of 4,350 pistols to Groznyy from the arms manufacturing plant in Izhevsk, Russia, while in May 1995 104th Guards Airborne Division paratroopers, who had recently returned to their Tula garrison from Chechnya, were arrested when they attempted to sell plastic explosives, grenade launchers, and ammunition to Chechen fighters.⁵⁹

Overall, the Russian military's criminal involvement in conventional weapons trafficking for personal enrichment ranges from the sale of individual arms for quick profit to sophisticated large-scale weapons transfers for huge revenues. At the end of 1995, weapons diversions at both ends of this spectrum continued unabated.

Military Crime and Weapons of Mass Destruction

Clearly, the unrestrained criminal trade in conventional arms raises justifiable concerns regarding the security of Russian weapons of mass destruction--nuclear, chemical and biological arms--and their associated components and technologies. Given the systemic criminality that exists in the Russian armed forces, there is substantial reason to question whether the personnel responsible for Russia's nuclear, chemical, and biological weapons are more reliable than the corrupt military officials assigned to responsible positions elsewhere. The large WMD stockpiles in Russia; the slow pace of their destruction or neutralization; questions surrounding the security, control, and oversight of WMD assets; and lagging military reforms are in themselves cause for concern. However, to more fully appreciate the risk of WMD diversion via Russian military vectors, it is instructive to first examine some current issues associated with nuclear materials trafficking generally and then look at the more prominent military organizations concerned with WMD--specifically nuclear and chemical units.

Nuclear Arms and Proliferation Issues

Tentative concerns over the security of Soviet nuclear weapons and materials began to surface in the late 1980s and were fully developed by the mid-1990s. While an early concern, the loss of Soviet tactical nuclear

weapons based in conflict areas around the USSR's periphery, has receded with the apparently successful withdrawal of these weapons into Russia, the diversion of fissile material and technology has grown as a recognized danger.⁶⁰

The current profusion of rumored, demonstrably false, and occasionally real and quite serious instances of fissile material diversion and smuggling from Russia continues to fuel proliferation concerns. US and other Western specialists have compiled lengthy lists of real and alleged nuclear smuggling attempts linked to Russia and the FSU.⁶¹ Most of the Russian cases are associated with alleged thefts or diversions from facilities of the Ministry of Atomic Energy (MINATOM) or other civil organizations, rather than military sites.

The existence of a Russian "nuclear mafia" that is largely dedicated to acquiring and trafficking in fissile material or WMD technologies continues to be debated. As the chief of the Russian Foreign Intelligence Service's Directorate for Arms Control and the Proliferation of Weapons of Mass Destruction judged it:

If you want my opinion--in no way is it even possible to talk about a "nuclear mafia" in the same context as the drug trade, where tens of thousands of people are involved and the activity is manipulated by truly well organized professionals. But it is our task, nevertheless, to prevent mafactors from establishing a real mafia.⁶²

Despite this well-reasoned view, it is clear that individual criminals and organized crime groups have sought to profit from selling various radioactive materials.

The 1993 case of beryllium diversion, smuggling, and attempted sale by Russian criminals (publicly reported in October 1995) is a notable case in point that suggests some efforts to profit from nuclear materials may be quite organized.⁶³ Certainly, this episode involved the same kind of bizarre personalities, criminal organizations, corrupt commercial ventures, negligent officials, and shadowy foreigners associated with the Russian conventional arms trade and other smuggling activities.

Foreign states and terrorist groups have focused on Russia as a source of nuclear materials and technologies. Russian Foreign Intelligence Service spokesmen have judged that "some countries in the Middle East, Central Asia, south[ern] . . . Africa, and Brazil show interest in Russia's nuclear, chemical, biological, and missile technologies" and warn about efforts to acquire Russian WMD secrets.⁶⁴ Continuing economic stringencies affecting Russian nuclear and missile scientists and workers have resulted in their emigration to countries willing and able to pay them. The Democratic Peoples Republic of Korea (DPRK) has been an aggressive consumer of ballistic missile technology. Russian scientists working in North Korea reportedly have been instrumental in the DPRK's program, while in 1992

Russian security forces barely prevented the emigration of 32 nuclear specialists to the DPRK to work on nuclear weapons programs.⁶⁵ Russia's insistence on selling nuclear reactors to Iran in the face of US and other Western warnings constitutes another danger of technology and material leakage that is potentially multiplied by Russian corruption and negligence.⁶⁶

The nuclear terrorist dimension, widely discussed in the Russian media for some years, gained new impetus with suggestions that the now-notorious Japanese Aum Shinrikyo sect had sought Russian nuclear and chemical technology.⁶⁷ However, it has been Chechen threats to attack nuclear facilities and, most recently, to contaminate Russian areas with nuclear materials that energized Russian security personnel as 1995 came to a close. Shamil Basayev, the Chechen military leader who led the successful raid on the Russian city of Budyonnovsk in June 1995, warned in mid-October of that year that he was dispatching five containers of radioactive materials to Russia. In a videotaped warning that showed containers about 50-60 centimeters high and 20-30 centimeters wide, Basayev also said that two of the radioactive containers would be wired with explosives.⁶⁸ Basayev's threat was at least partially fulfilled the following month when a Chechen message led the media to a radioactive package buried near the entrance of Moscow's popular Ismailov Park.

While the material was characterized by Russian authorities as low-grade and relatively harmless, the incident underscored the capital's vulnerability to nuclear terrorism; demonstrated the easy access to some fissile materials by insurgent, terrorist, or criminal groups; and left citizens and security forces alike wondering what might come next.⁶⁹ While having military implications and associations, the issues discussed above do not involve the Russian military per se. The relationships among the Russian military, crime, and nuclear arms constitute a more specific problem that will now be addressed.

The main military organization in charge of nuclear munitions is the 12th Main Directorate of the Ministry of Defense (Glavnoye Upravleniye Ministerstvo Oborony), more simply known as the 12th GUMO. Unlike most other main and central directorates of the Soviet (and later Russian) Defense Ministry--including GRAU, GBTU, and analogous technical directorates involved with arms and equipment--the secretive 12th GUMO was nearly invisible to public view during the Soviet period. As retrospective Russian assessments have revealed, the directorate had its origins at the very end of World War II, when the so-called First Main Directorate was established under the USSR Council of Ministers to "coordinate work on atomic projects."⁷⁰ Two years later a "special department" was set up in the Ministry of Defense to study material on the employment and effects of US nuclear

weapons. Following the successful explosion of a Soviet nuclear weapon in 1949, the First Main Directorate and the MoD's special department were merged to form a main directorate "to provide centralized direction of testing, stockpiling, and operating nuclear weapons and . . . protection against nuclear weapons." This organization was the direct progenitor of today's 12th GUMO, which is described by its chief, Colonel General Yevgeniy P. Maslin, as follows:

Military research and scientific test organizations as well as military units engaged in the immediate operation of nuclear munitions are subordinate to today's Russian Federation Ministry of Defense Main Directorate. In connection with the reduction of tactical nuclear weapons, the elimination of intermediate and shorter range missiles and the limitation of strategic nuclear arms, the task of eliminating nuclear munitions and increasing the safety of the remaining ones also has been assigned to the Main Directorate in recent years.⁷¹

Thus, the 12th GUMO currently maintains large central nuclear munitions depots which have been filled with tactical, operational-strategic, and strategic nuclear weapons withdrawn from non-Russian areas of the FSU or otherwise taken "off-line" and redeployed.⁷² In addition to transporting nuclear weapons when necessary, the 12th GUMO runs a variety of research, development, and support facilities. It vigorously asserts exclusive control over these sites, insisting that they are fully secure and should be the province only of MoD inspectors and oversight. But the 12th GUMO is part of the

Russian military and Russian society and, as a consequence, is potentially susceptible to the same economic, political, and criminal pressures.

This makes statements like the following one by the 12th GUMO's deputy chief, Lieutenant General Sergey Zelentsov, less than reassuring. He made similar statements as recently as fall 1995.

The system for the protection of nuclear munitions is echeloned and extremely reliable. Access to them is multilayered. It is virtually impossible for outsiders to get to the warheads. The transport of nuclear munitions is also properly organized. There are special formations in a high state of readiness to thwart any attempt to seize them. To date there has not been a single loss from the nuclear arsenals.⁷³

General Maslin similarly characterized theft from 12th GUMO facilities as "impossible" but also identified vulnerabilities to criminal or terrorist groups. These vulnerabilities were found principally in the theft of nuclear weapons while in transport, which must be taken "into account in planning our actions on a day-to-day basis." Further, exercises were run regarding the theft of nuclear weapons from 12th GUMO facilities. Maslin candidly summarized the results of these exercises:

And I must tell you frankly that as a result of those exercises, I became greatly concerned about a question that we had never even thought about before: *What if such acts were to be undertaken by people who have worked with nuclear weapons in the past? For example, by people dismissed from our structures, social malcontents, embittered individuals?* This question is so serious that I had to deliver a report on it to an interdepartmental commission of the Russian Security Council.⁷⁴

In a country filled with embittered and desperate active duty and former military personnel, many long since engaged in criminal activities and some veterans of Soviet/Russian nuclear weapons programs, Maslin's remarks seem well-considered. They also stand in sharp contrast to the typical reassurances issued by him and his fellow officers.

Criminality and disaffection in nuclear-associated units is more directly evident at deployed military facilities and operational sites, where living conditions are extremely poor and oversight is lax, than at the centralized and less-visible 12th GUMO facilities.⁷⁵ For example, in reviewing detected military criminal cases in the late summer of 1994, acting Chief Military Procurator G. N. Nosov identified Strategic Rocket Forces (SRF) criminality fostered either by the poverty in which many officers found themselves or as a consequence of opportunity and potential monetary gain. He noted that an SRF officer had set up a currency exchange and shop at his quarters on base where he sold food at inflated prices. He also noted a major general and former chief of the SRF's Financial-Economic Directorate who had illegally transferred 2 billion rubles to several private firms.⁷⁶

The activities of Major General Vladimir Rodionov, commander of a long-range aviation division in the Russian Far East, and his deputy are good examples of strategic force corruption. Long-range aviation (LRA) is one of Russia's nuclear strike forces, tasked to hit targets deep in enemy territory.

The two officers, however, transformed their "top secret" LRA operating base into a transshipment point for moving commercial goods and businessmen between cities in the Commonwealth of Independent States and China.

Profits from these illicit operations were shared with bomber pilots and crews who came to see the commercial enterprise as their principal job. A small portion of the profits was put into the division's account.⁷⁷ These kinds of incidents suggest that conspiring military personnel would be willing to sell nuclear components or even a nuclear weapon, if given the opportunity.

Perhaps the most notable example of this potential involved nuclear materials stolen from a Navy nuclear facility in northern Russia. The circumstances and implications of the theft have gradually become more visible over the last two years. The incident centered specifically on a Northern Fleet nuclear fuel storage facility near Murmansk.

For several years now, the Northern Fleet has stood out as a center of military-civil crime and generally sloppy administration. Even during the Soviet period, the sudden explosions at the huge Northern Fleet munitions depot in 1984 presaged similar military disasters during the subsequent decade. During the spectacular series of explosions, at least one Soviet submarine in port sealed its hatches while crew members watched through the periscope with alarm as the explosions came disturbingly close to the fleet's nuclear storage facilities.

From the late 1980s to date, numerous other examples of declining readiness and rising levels of carelessness have become increasingly evident, while the looting and more systematic theft of fleet resources involved both military and civilian groups. Added to these continuing problems has been the danger posed by 100 or more decommissioned Russian nuclear submarines, some with nuclear fuel unloaded, that one specialist characterized as “floating atomic bombs.”⁷⁸

However, the late 1993 theft of three “live fuel assemblies” (known by the acronym STVS) for obsolete “Victor 1” nuclear submarines from a naval storage facility in the Murmansk area speaks most directly to nuclear security and the potential for criminal penetration. More specifically, the theft involved a total of 4.3 kilograms of nuclear material, of which .85 kilograms were uranium 235. While the theft itself was not as significant as some others, what it revealed about fleet nuclear storage security and criminal opportunity was more significant.⁷⁹

After months of fruitless investigation, three Russian Navy officers (a captain 2nd rank, a captain 3rd rank, and a senior lieutenant) were finally identified as the thieves. The investigation, concluded in mid-1995, indicated that the three officers had planned to sell the material to an organized crime figure who expressed an interest but never followed through. Military prosecutors were more concerned about security conditions at the nuclear

materials storage site than with the theft itself. There was minimal perimeter security, essentially no protective alarm system, poor locks, elderly untrained guards who were afraid to handle their weapons, and STVS containers secured only by plastic seals that had been unchecked for years. While a spectrum of recommendations was made to improve security at this and other sites and some initial measures were taken, inadequate funding prevented their full implementation. What this indicates more broadly about military sites containing radioactive fuels or warheads is not clear, but it suggests that some sites fall far short of the high security levels military specialists assert. In particular, systemic criminality within the Russian military throws even the best security at the most sensitive military nuclear sites into question. Moreover, Boris Yeltsin's decision in the late summer of 1995 to bar the Russian State Committee for the Supervision of Nuclear and Radiation Safety (GOSATOMADZOR) from inspecting MoD nuclear sites meant that determining the adequacy of the armed forces' nuclear security became strictly a military responsibility.⁸⁰

Chemical Arms and Proliferation Issues

The protection of Russian military chemical agents and the potential vectors for their diversion constitute a problem at least as large as the nuclear proliferation issue. Until the late 1980s, when the Soviets decided to publicly

reveal the nature and extent of their programs, knowledge about Soviet chemical weapons was based more on inference and speculation than actual data. While Western analysts carefully studied the activities and voluminous writings associated with the Soviet Chemical Troops (Khimicheskiye Voyska), they dealt exclusively with defenses against chemical, radiological, and biological weapons, not with Soviet offensive employment.⁸¹ However, the opening of parts of the military's Shikany chemical research, testing, and storage complex to foreign specialists and the press in 1987, along with subsequent official revelations, highlighted the scope and scale of Soviet (and Russian) chemical weapons production and storage. In no respect has this additional knowledge been a cause for complacency regarding the security of chemical agents and technology.⁸²

By all accounts, Russia inherited the largest chemical weapons arsenal in the world--about 40,000 metric tons of chemical agents, which are resident in bombs, missile warheads, artillery shells, other munitions, and storage canisters.⁸³ Of these, 32,300 metric tons were declared to be nerve gases such as sarin, soman, VX, and others, while the remainder were stated to comprise older agents such as lewisite and yperite in separate and combined forms. They are maintained under the purview of the descriptively named Russian Federation Radiological, Chemical, and Biological Defense Troops. In the view of some, overall Russian stockpile estimates were low

and needed to be revised upwards.⁸⁴ Indeed, in late November 1995 the chief of the Radiological, Chemical, and Biological Defense Troops, Colonel General Stanislav Petrov, had to forcefully deny Russian Security Council charges that the military secretly maintained 100,000 metric tons of chemical agents.⁸⁵ The military continues to stipulate that only 40,000 metric tons are dispersed at Shikany and some six other principal chemical weapon storage sites. Still, questions about the actual size of the inventory linger.⁸⁶

During the 1980s and perhaps earlier, the Soviet Union embarked on a Shikany-based research and development effort to create binary chemical agents. This effort was carried out by a research team that included Lieutenant General of Chemical Troops Anatoliy Kuntsevich who, along with his leading team members, was awarded the Lenin Prize in 1991.⁸⁷ The new weapons were characterized as five to eight times more powerful than earlier nerve agents, and allegations about their testing continued into 1995. These agents, whose quantities and disposition remain unknown, are not included in the 40,000 metric ton total.

As with nuclear materials and facilities under Russian military control, the security of military chemical stocks and technologies continue to be the target of many critics. In fall 1995, former Russian military scientist Vil S. Mirzayanov echoed earlier charges and asserted that the theft and illegal production of Russian chemical agents was a greater risk than the

dangers associated with the nuclear arsenal. He highlighted the lax security at chemical depots and alleged duplicitous statements by Russian military officials on the status of research and testing. He also underscored extreme environmental hazards and inadequate chemical destruction approaches and resources.⁸⁸ In short, Mirzayanov and others described an infrastructure that was at least as trouble-plagued as the military nuclear system.

The potential criminal diversion of chemical agents and technologies, however, was most visibly highlighted by two events in 1995. The first of these was the fatal March 1995 sarin attack by Aum Shinrikyo members in a Tokyo subway. It almost immediately generated speculation about a Russian connection to the chemical agents and technologies used and again spotlighted the ambiguous security and status of chemical weapons stocks. Russian, Japanese, and other investigators quickly identified a substantial number of sect members in Russia, including members in the government and other walks of life. Media commentators took note of a "gas analyzer" of Russian origin seized at a sect facility; reports of Aum Shinrikyo sect members among Russian Radiation, Chemical, and Biological Defense Troops; alleged sect ties to the Russian Academy of Sciences; the large volume of commercial Russian ship and aircraft traffic between Russia and Japan; and other issues that suggested questionable Russo-Japanese linkages to sarin production or transport.

Critics of Russian chemical weapon policies, such as Doctor of Chemistry Lev Fedorov, emphasized the possibility that Russian chemical weapon technology may have contributed to the creation of sarin by sect chemists. While he doubted that sarin could have been stolen and transshipped due to its toxicity and volatility, Fedorov emphasized that many workers with sarin production experience had left the factory after it suspended operations in 1987.⁸⁹ For their part, official Russian military and security service spokesmen, while acknowledging Aum Shinrikyo's presence in Russia, reiterated the absolute security of military chemical depots and munitions, underscored the difficulty of transporting sarin from Russia, and noted that Japanese chemists were quite capable of producing sarin without foreign help.

Former Chemical Troops General Kuntsevich, who by spring 1995 was out of the armed forces and identified as Director of the Russian Academy of Sciences Ecotoxinometry Center, decried reports of a Russian linkage while criticizing the Japanese for not reacting to earlier indicators of the sect's sarin production experiments.⁹⁰ Nevertheless, like Fedorov he acknowledged that "military-related individuals may sell such technology to foreigners . . . and refrained from ruling out the possibility of technology drain."⁹¹

The questions generated by the Aum Shinrikyo attack were followed half a year later by a second development that involved Russian chemical weapons more directly. It also was centered on Lenin Prize winner and former General of Chemical Troops Kuntsevich. In late October 1995, Kuntsevich was charged by the Russian Federal Security Service with delivering about 800 kilograms of chemicals to unidentified Middle East buyers in 1993 and attempting to smuggle an additional five-and-a-half tons in 1994.⁹² The chemicals, said to be taken from military facilities, reportedly could be used for civil applications or to create chemical weapons. Kuntsevich also was judged responsible for the poor conditions at the Shikany 2 military chemical facilities that he once ran. It was revealed that Kuntsevich had been removed from his presidential advisory post on chemical and biological issues by Boris Yeltsin in April 1994 for "gross violation of his duties." However, as with other "disgraced" officials who have found good post-dismissal employment, he was able to remain affiliated with the Russian Academy of Sciences.⁹³ Kuntsevich's identification as a candidate in the December 1995 parliamentary elections as part of ultra-nationalist Vladimir Zhirinovskiy's Liberal Democratic Party (the party later dropped Kuntsevich from its ticket) added a familiar political complexity similar to those noted above.⁹⁴

In summary, Russian military chemical weapons organizations, infrastructure, and personalities are subject to the same allegations and demonstrated shortcomings associated with the conventional and nuclear weapons structures and programs. Distinguishing truth from mere assertion in this shadowy world is difficult, but the evident dissension and disarray suggests that the illegal diversion of chemical materials or technologies is a daily possibility.

Conclusions

Institutionalized crime is flourishing in the Russian military and security forces as these faltering organizations struggle to deal with the challenges of a far different world. Military crime and corruption is now directly associated with the Russian Ministry of Defense, the General Staff, logistic and technical organizations, combined arms units and commands, strategic strike and air defense formations, and military education components. Individual criminals range from general officers to the newest conscripts. Analogous problems are present in those Russian law enforcement and security bodies that are supposed to support internal order and combat crime. As it has for security establishments around the world that are faced with corruption and internal turmoil, this raises profound questions

about the stability, motivations, and reliability of the Russian armed forces.

The effect on weapons trafficking and the proliferation of conventional armaments and WMD has been profound.

In this regard, there are four principal judgments suggested by this examination of linkages among Russian military and security forces, organized crime, and weapons proliferation. First, black and gray market conventional arms trafficking, with Russian military materiel constituting the most substantial source, is continuing apace in the Central Eurasian/East European region and elsewhere. Second, criminality in the Russian armed forces (as well as the militaries of other FSU states) is playing an integral role in black and gray market arms trafficking and is increasingly corrupting state arms sale processes. Third, ties between Russian military/security organizations and civil-sector criminal enterprises associated with weapons trafficking are flourishing, as are relationships between military/security structures and shadowy joint-stock companies and commercial enterprises within Russia and abroad. Finally, in light of systemic Russian military crime and particularly close military-criminal ties with regard to the arms trade, the avowed security of Russian nuclear and chemical weapons is subject to substantial doubt. Reported security shortfalls at military nuclear and chemical facilities and the criminal vulnerability of active and former military personnel involved in nuclear and chemical programs suggest, in

particular, that military vectors for WMD proliferation are far more likely than previously thought. Overall, the Russian military's role in weapons proliferation--and the roles of militaries in other Soviet successor states--will be a substantial consideration in the establishment of stability and peace in Central Eurasia and beyond. Of special importance, these developing military-criminal linkages may represent one of the greatest WMD proliferation dangers, a potential that increasing numbers of official Russian spokesmen are now acknowledging.

ENDNOTES

- 1 For a substantial survey of crime and its association with various aspects of Russian life including the military, see "Prestupnost'-ugroza Rossii" (Criminality--a threat to Russia), in the special edition of Obozrevatel', no. 2, 1993, which is dedicated entirely to this topic.
2. "Kak poborot' prestupnost'" (How to overcome crime), Krasnaya zvezda, 10 March 1995; and Penny Morvant, "Crime Roundup," OMRI Daily Digest, Part I, 17 March 1995.
3. Olga Kryshstanovskaya, "Russia's Mafia Landscape," Izvestiya, 21 September 1995, as translated in The Current Digest of the Post-Soviet Press, vol. XLVII, no. 38, 1995, p. 3.
4. See Dmitry Alyokhin, "Law and Order: Head of the Chief Administration for Combating Organized Crime Discusses Organized Crime--and the Rector of the Russian Ministry of Internal Affairs' Institute Talks About That New Educational Institution," Segodnya, 18 May 1994, as translated in The Current Digest of the Post-Soviet Press, vol. XLVI, no. 20, 1994, p. 16. Ibid. For excellent treatments of organized crime in Moscow and the former Soviet Union as well as its implications, see Joseph Serio, "Organized Crime in the Soviet Union and Beyond," Low Intensity Conflict and Law Enforcement, vol. 1, no. 2 (Fall 1992), pp. 127-151; and Mark Galeotti, "Organized Crime in Moscow and Russian National Security," Low Intensity Conflict and Law Enforcement, vol. 1, no. 3 (Winter 1992), pp. 237-252.
5. Kryshstanovskaya, "Russia's Mafia Landscape," p. 3.
6. One senior US official who had played a central role in investigating the BCCI financial scandals identified the reform of Russia's financial system as the test of Russia's ability to achieve true democratic reforms. (Presentation delivered at an international conference on organized crime, September 1994, Vienna, Virginia, on a non-attribution basis).
7. Penny Morvant, "Criminals to Enter Parliament?" OMRI Daily Digest, no. 68, Part I, 5 April 1995.
8. Anna Paretskaya "85 Suspected Criminals Run for Duma Elections," OMRI Daily Digest, no. 193, Part I, 4 October 1995.
9. These remarks were made by government opponent Valery Kolmakov, chairman of an organized crime and corruption subcommittee of the State Duma. Lee Hockstader, "A System in Which Everything Favors the Bad Guys," Washington Post National Weekly Edition, 20-26 March 1995. At the same time, Oleg Fedorov, former Finance Minister under Boris Yeltsin and head of the reformist "Forward Russia!" movement, suggested that eight unnamed financial groups held real power in Russia, and that "someone" benefited from the high rate of crime in Russia. The eight groups he referred to may be those backing the newly established Duma faction "Stability," which supports Yeltsin and wished to postpone the December 1995 parliamentary elections (See Laura Belin, "Fedorov: Financial Groups Hold Real Power in Russia," OMRI Daily Digest, no. 55, Part I, 17 March 1995. The complex relationships of large financial groups such as Most (meaning "Bridge" in English) have been continuing targets of speculation and investigation. See, for example, Vadim Viktorov, "Vladimir Shumeyko and Weapons: Is There a 'Bridge' Between Them," Novaya yezhednevnyaya gazeta, 8 June 1994, as translated in FBIS-SOV-94-111. Finally, it needs to be stressed that accusations of criminality constitute a frequently used political weapon and that the media associated with political factions and their various shadings must be balanced with other sources, views, and evidence when considering reports of criminal activity. For instance, while characterizations are less than perfect and what constitutes "reform" and editorial policy changes vary, Novaya yezhednevnyaya gazeta and Segodnya are pro-reform, though the latter is owned by the Most Group and thus reflects a particular set of views; Izvestiya and presidential administration newspaper Rossiyskiye vesti, both take a generally reformist, pro-democratic tack with the former, in particular, having good investigative reports; Rossiyskaya gazeta is a government newspaper thought

to be partisan and subject to manipulation; Krasnaya zvezda reflects an increasingly factionalized military (but still largely Defense Ministry) perspective; Pravda is a newspaper reflecting the views of former Communists; Komsomol'skaya pravda, Nezavisimaya gazeta, and Moskovskiy komsomolets are aggressively investigative toward state institutions, enterprises, and individuals; Rossiia reflects strong nationalist views; Kommersant-Daily reflects reform and business interests; and Moscow News reports frequently on crime and security issues and often takes a critical view of Russian state institutions and personalities.

10. For an account of various dimensions of questionable arms trafficking involving Russia's Izhevsk arms factory, see Sergey Smirnov, "Takoy vot biznes: strelba po svoim" (That's what business is about: shooting at your own), Literaturnaya gazeta, no. 16, 19 April 1995.

11. Interview with Major General of Justice Gennadiy Sutormin by Oleg Getmanenko, "Army Actively Counters Crime: This Is Borne Out by Military Procurator's Office," Krasnaya zvezda, 16 August 1994, as translated in JPRS-UMA-94-033, p. 24.

12. In Ukraine, some Military Transport Aviation was reported to be largely at the disposal of commercial enterprises. Aleksandr Zhilin, "Army: Businessmen Command Aviation," Moskovskiy novosti, no. 45, 7 November 1993, as translated in JPRS-UMA-94-002, p. 21.

13. Smirnov, "That's Business for You," p. 6.

14. For an interesting and instructive discussion of some aspects of military corruption during the Soviet period, see Brenda J. Vallance, "Corruption and Reform in the Soviet Military," Journal of Slavic Military Studies, vol. 7, no. 4 (December 1994), pp. 703-724. As addressed in many sources, most types of military crime evident in the Russian armed forces today are represented in at least limited or embryonic ways in the former Soviet military establishment. To this extent, Russian military crime is far from "new." The Soviet armed forces, Soviet state institutions, and most fundamentally the Communist Party of the Soviet Union all established an organizational culture and practices commensurate with criminality. In terms of scope, diversity, development, and external linkages, the endemic criminality in the Russian armed forces represents the unrestrained flourishing of criminal activity rooted in more than seven decades of Soviet power. See also Graham H. Turbiville, Jr., "Mafia in Uniform: The 'Criminalization' of the Russian Armed Forces," Foreign Military Studies Office, Fort Leavenworth, Kansas, May 1995.

15. Report on military crime by Vladimir Gondusov on TASS, 1718 GMT, 29 March 1990, as translated in FBIS-SOV-90-062, p. 68; and Interview with Major General Yu. Kudinov by I. Yesyutin, "Oruzhiye 'v rozyske': razdum'ya nad trevozhnoy statistikoy" (Weapon in the 'investigation': reflections over an alarming statistic), Krasnaya zvezda, 11 April 1990.

16. Suzanne Crow, "Gulf--Diversion of Soviet Ship Raises Questions," Radio Liberty, 16 January 1991.

17. See Kudinov, "A Weapon in the 'Investigation,'" for a discussion of the poor security at arms storage facilities.

18. Areas of ethnic conflict have seen numerous incidents of irregular and illegal arms transfers from Russian forces. A number of notable incidents from the troubled Transcaucasus area in the late 1992 period are set out in Yekaterina Glebova and Akaky Mikadze, "Munitioneers," Moscow News, no. 51, 20-27 December 1992.

19. Kholodov, "And Service Their Will Seem to Be Honey....," p. 8.

20. WS, "Interim Stocktaking of Russian Withdrawal," Frankfurter Allgemeine, 26 January 1994, as translated in FBIS-WEU-94-017. (The article was signed only with the initials "WS".) Former WGF commander Burlakov, who was named a Deputy Minister of Defense upon the completion of WGF's

withdrawal, became the subject of investigations by the Russian Parliament in the late summer of 1994. A principal reason for this investigation was the charge that new equipment assigned to his former command had not returned with his forces.

21. Turbiville, "Mafia in Uniform," addresses these areas in more detail.

22. John Lepingwell, "Military Corruption Increasing?" Radio Free Europe/Radio Liberty Report, no. 185, 27 September 1993.

23. Alyokhin, "Law and Order."

24. Yuriy Mikhailov, "Grachev's Mercedes Was Invented by Warrant Officer Pronin," Novaya yezhednaya gazeta, 16 September 1994, as translated in JPRS-UMA-94-041, p. 1.

25. G. N. Nosov, "Army: Everything's For Sale," Moscow News, 26 August-1 September 1994.

26. Ibid.

27. Doug Clarke, "Military Main Source of Criminals' Weapons," OMRI Daily Digest, no. 68, Part I, 5 April 1995.

28. See Interview with Marshal Ye. Shaposhnikov by Andrey Uglanov, "Partnerstvo vo imya NATO?" (Partnership in the name of NATO?), Argumenty i fakty, no. 22, June 1994; and Viktotov, "Vladimir Shumeyko and Weapons."

29. "Bor'ba za eksport oruzhiya i bor'ba za vlast' 'v verkhakh'," ('Struggle' for the export of weapons and the struggle for power 'at the top'), Zavtra, no. 16, April 1994.

30. Samoylov was also a close associate of and foreign military advisor to Federation Council Chairman/First Vice-Premier Vladimir Shumeyko, whose signature appeared on the edict establishing Rosvooruzheniye, and who appears linked to the Most financial group. Other figures prominent in the promulgation of the edict include First Deputy Prime Minister O. Soskovets, who approved the edict for the government, and V. Chernomyrdin, who approved Rosvooruzheniye's charter. Foreign firms also appear to have had a role in the creation of the new state company. See Vasilii Kryukov, "Guns Backing Up to the Market: Who Benefits from the Reorganization of Arms Exports in Russia," Rabochaya tribuna, 19 January 1994, as translated in JPRS-UMA-94-009.

31. In October 1995, Marshal Shaposhnikov left this post to become Director of Aeroflot. Interview with Yevgeniy Shaposhnikov by Aleksandr Zhilin: "Coming Back to Aviation," Moskovskiy novosti, no. 75, 29 October-5 November 1995, as translated in EVP Digest, Part I, 1 November 1995.

32. Pertinent sources, all of which need to be considered in light of their affiliations and editorial perspectives, include "The 'Struggle' for Arms Exports," Zavtra; Viktorov, "Vladimir Shumeyko and Weapons;" INTERFAX, 1309 GMT, 7 April 1994, as translated in FBIS-SOV-94-068-A; Pavel Felgengauer, "Rosvooruzheniye Is the Best Friend of the Military-Industrial Sector: But One Should Not Expect to Earn \$20 Billion," Segodnya, 6 April 1994, as translated in FBIS-SOV-94-066; Interview with Marshal Yevgeniy Shaposhnikov by Laure Mandeville, "Russia Has Made Too Many Concessions to NATO," Le Figaro, 29 June 1994, as translated in FBIS-WEU-94-126; Aleksandr Sychev, "V noyabre Moskva vvела monopoliyu na trgovlyu oruzhiyem, v maye otkazalas' ot neye" (In November, Moscow introduced a monopoly in the arms trade, and revoked it in May), Izvestiya, 21 May 1994; and Eduard Viktorovich Maksimov and Yuriy Georgiyevich Sizov, "The Military Industrial Complex and Arms Sales," Vooruzheniye, politika, konversiya, no. 2, 1993, as translated in JPRS-UMA-94-009.

33. Fred Hiatt "A Nation Up for Grabs," Washington Post National Weekly Edition, 3-9 April 1995.

34. The FSK was subsequently reorganized and renamed the Federal Security Service (Federal'naya Sluzhba Bezopasnosti--FSB). It was taken over by the chief of Main Protection Directorate (GUO), Lieutenant General Mikhail Barsukov.

35. For a spectrum of views on the Most raid see Ibid.; Boris Aleksandrov, "Action by Special Services Did Russia 'Immense Economic Damage.'" The Association of Russian Banks Sees the Precedent as a Symptom," Segodnya, 7 December 1994, as translated in FBIS-SOV-94-235; Natalya Zhelnorova and Andrey Uglanov, "Gruppa 'Most': snova zamorozki" (The Most Group: again in the cold), Argumenty i fakty, no. 49, December 1994; INTERFAX, 1944 GMT, 5 December 1994, as translated in FBIS-SOV-94-234; Vadim Yegorov, "Presidential Special Services Show Who Is in Control of Moscow. Following Friday's Incident Vladimir Gusinskiy Urgently Sent His Wife and Son Abroad," Nezavisimaya gazeta, 6 December 1994, as translated in FBIS-SOV-94-235; Interview with Vladimir Gusinskiy by Natalya Zhelnorova, "Is the Snow Melting?," no. 48, November 1994, as translated in FBIS-USR-94-133.

36. "No Corpus Delicti Was Found On Yeltsin's Security Men," Moskovskiy komsomolets, 13 May 1995, as translated by EVP Press Digest, 13 May 1995; and Penny Morvant, "Charges Dropped in Most Group Case," OMRI Daily Digest, no. 93, Part I, 15 May 1995.

37. Mikhailov, "Grachev's Mercedes Was Invented by Warrant Officer Pronin," p. 2. In a sarcastic reference to Shaposhnikov intended to indicate how well he was doing in comparison to other servicemen, Mikhailov noted in regard to the Marshal's residence: "In addition to the official one, he is building two more houses on his land. Each one has approximately 250 square meters. He will probably let pilots from Germany who do not have apartments live there. After all, he commanded the 16th Air Army there."

38. Numerous Western reports have addressed Russia's arms trade efforts. See, for example, Jonathan Beatty, "Russia's Yard Sale," Time, 18 April 1994, pp. 52-55; and Charles J. Hanley, "Russia Wholesaler of Choice for World's Arms Traffickers, Associated Press Report, 30 March 1994.

39. Some Russian arms sales in Cyprus are evidently quite legal, if controversial. For example, Bayrak Radio, 1030 GMT, 12 June 1995, as translated in FBIS-WEU-95-113, reported protests by Cypriot Prime Minister Hakkı Atun to the United Nations Security Council over the alleged sale of Russian (and French) arms to Greek Cypriot forces.

40. Robert Fisk, "Moscow's Mafia Finds an Island in the Sun," The Independent, 3 August 1994.

41. Sychev, "Moscow Introduced Arms Trade Monopoly in November, and Revoked It in May."

42. Interview with Aleksandr Kotyolkin by Natalya Gevorkyan, "'Rosvooruzheniye': The Scandal Has Its Internal and External Reasons," Moskovskiy Novosti, no. 29, 23-30 April, 1995, as translated by EVP Press Digest (on-line), 28 April 1995.

43. Ibid.

44. Aleksandr Zhilin, "The Marshal Has Come Out of the Trenches," Moskovskiy Novosti, no. 32, 7-14 May 1995, as translated by EVP Press Digest (on-line), 11 May 1995. Marshal Shaposhnikov has evidently cast his lot with Korzhakov in this struggle, asserting that the SBP chief "is one of the few people in the Kremlin who are trying to oppose the across the board sale of the country and the selling out of national interests."

45. Anna Andrianova, "Another Seven Military-Industrial Complex Enterprises Secure Independent Exporting Right. 'Rosvooruzheniye' Definitely Loses Arms Trade Monopoly," Segodnya, 27 October 1995, as translated in EVP Press Digest, Part I, 27 October 1995; and "Yeltsin Changes the

Procedure for Selling Arms," Moskovskiy Komsomolets, 10 October 1995, as translated in EVP Press Digest, 10 October 1995.

46. Interview with Voyentekh General Director, Lieutenant General (Reserve) Anatoliy Grigoryevich Funtikov by Valentin Rudenko, "'Voyentekhu' est' chto predlozhit'" (Voyentekh has something to offer), Krasnaya zvezda, 28 May 1994.

47. Ibid. For more on Khorzhakov and the Rosvooruzheniye scandal, see Aleksandr Minkin, "The Goats Want to Guard the Cabbage--It is a Business They Love," Moskovskiy Komsomolets, 21 April 1995, as translated in JPRS-UMA-95-020, pp. 74-80.

48. See Mikhailov, "Grachev's Mercedes Was Invented By Warrant Officer Pronin," p. 3, for the GBTU's illegal receipt of currency from a foreign economic concern.

49. Many allegations have also concerned the military's sale of first-line equipment. See Alexei Nezayev, "Grachev Thirsts for Trade in Military Hardware," Moscow News, 12-18 May 1995.

50. Russian television and Dubl Networks, 0700 GMT, 14 December 1994, as translated in FBIS-SOV-94-248.

51. Ibid.

52. Interview with Lieutenant General Nikolay Nikolayevich Zlenko by Valentin Rudenko, "Interesy natsional'noy bezopasnosti prevyshe vsego," (The interests of national security are above everything), Krasnaya zvezda, 25 February 1995.

53. See the articles, Sergey Maslov, "V Evrope schitayet, chto mesto russkikh--na Vostoke" (Europe believes that the place for Russians--is in the East), Komsomol'skaya pravda, 30 August 1994; and Igor Chernyak, "Smotrya kakikh russkikh--I na kakom Vostoke" (Looking at what kind of Russians--and what kind of East), Komsomol'skaya pravda, 30 August 1994.

54. Mikhailov, "Grachev's Mercedes Was Invented By Warrant Officer Pronin," p. 3.

55. Dzhokar Dudayev became president of the self-proclaimed Chechen Republic in September 1991 and subsequently pushed for the withdrawal of Russian forces stationed there. For a 1992 profile of Dudayev see Lyudmila Leontyeva, "Djokar Dudayev," Moscow News, no. 14, 1992. (The rendering of the Chechen president's name varies widely from source to source).

56. Interview with Major General Igor Kochubey by Irina Chernova, "The Order Came From Moscow--Leave Your Weapons," Komsomol'skaya pravda, 21 January 1995, as translated in JPRS-UMA-95-003, pp. 5-7; Yuriy Bepalov, "Kto vooruzhal Dzhokhara Dudayeva? Oruzhiye sdali po prikazu Moskovy" (Who armed Dzhokar Dudayev? Weapons were handed over at Moscow's order), Izvestiya, 14 January 1995; and Valeriy Yakov, "Who Armed Dzhokar Dudayev? It Is Best to Remove a Witness," Izvestiya, 14 January 1995, as translated in JPRS-UMA-95-003, pp. 8-9. Among the intriguing material related by Russian General V. Ochirov was a statement made suddenly by Dudayev to him in late 1993. Dudayev reportedly said: "Do you know that a special air route runs through Grozny to Turkey, the Arab Emirates, Jordan, and other countries? We do not have customs or border control; the airport officially is not listed as an international airport, but airplanes flying to and from Russia make a stopover here. Who boards them here, who deplanes, what they are carrying--nobody knows." (Yakov, "Who Armed Dzhokar Dudayev?") For more on arms, drug, and money conspiracies involving Chechnya, see also Sergey Andreyev, "Rasplata budet: patrioticheskiye spetssluzhby preduprezhdayut izmennikov" (There will be a day of reckoning: patriotic special services warn traitors), Zavtra, no. 28, July 1995; and the monograph (with pseudonymous author) Ivan Ivankov, Mezhdunarodnaya kontrabanda narkotikov I byvshiy SSSR (International narcotics contraband and the former USSR), (Moscow: Research Group 'Felix', February 1995).

57. Robert Ortung, "More Revelations About Beginning of Chechen War," OMRI Daily Digest, no. 28, Part I, 8 February 1995.

58. James Rupert, "Cache and Carry in Chechnya: The Russians Trade Arms With the Enemy," Washington Post National Weekly Edition, 27 February-5 March 1995.

59. Clarke, "Military Main Source of Criminals' Weapons;" and "Russia Bombs Chechnya, Blocks Roads," Associated Press Report, 21 May 1995.

60. For reporting on early Soviet concerns, see Alexander Rahr, "Soviet Fear of Nuclear Terrorism," Report on the USSR vol. 2, no. 13, 30 March 1990, pp. 10-11; and Alexander Rahr and R. Alex Bryan, "Concern Over Security of Nuclear Arms," Report on the USSR, vol. 2, no. 41, 12 October 1990, pp. 6-7.

61. See, for example, the many useful products and data bases of the Program for Nonproliferation Studies, Monterey Institute of International Studies to include Nonproliferation Review produced quarterly, and Nuclear Successor States of the Former Soviet Union, published jointly by the Carnegie Endowment for International Peace and the Monterey Institute of International Studies, May, 1994.

62. Interview with Gennadiy Yevstafyev by Vladimir Orlov, "Interview of the Month--Nine Questions on Nuclear Nonproliferation," Yadernyy kontrol, January 1995, as translated in JPRS-TAC-95-002.

63. See Tim Zimmerman and Alan Cooperman, "The Russian Connection," US News and World Report, 23 October 1995, pp. 56-67. In brief, the beryllium was acquired by organized crime and associated commercial firms in Yekaterinburg by using a false purchase order submitted to a Ministry of Atomic Energy (MINATOM) nuclear research institute in Obninsk. The material was moved by aircraft to Vilnius, Lithuania, and stored in a local bank until seized by Lithuanian police responding to a tip. Unsuccessful efforts to sell the beryllium involved shadowy foreign (possibly North Korean) buyers.

64. INTERFAX, 1802 GMT, 28 July 1995, as translated in FBIS-SOV-95-146, p. 25.

65. Greg J. Gerardi and James A. Plotts, "An Annotated Chronology of DPRK Missile Trade and Development," Monterey Institute of International Studies, 11 August 1994, pp. 4-5. See also "Russia Detains Weapons Experts," Lawrence Journal World, 20 December 1992.

66. Jim Adams, "US Senate Acts Against Russia Nuclear Sale to Iran," Reuter News Service, 16 March 1995. Russia evidently intends to help Iran build up to four nuclear reactors, a project that the US believes will advance Iranian nuclear weapons programs.

67. See Kyodo, 1403 GMT, 10 April 1995, as translated in JPRS-TOT-95-006-L, p. 28, among many other media reports.

68. Interview with Russian Internal Affairs Minister Anatoliy Kulikov by Yevgeniy Kiselev, NTV, 1800 GMT, 15 October 1995, as translated in FBIS-SOV-95-199, p. 55.

69. Michael Specter, "Chechen Insurgents Take Struggle to Moscow," New York Times, 24 November 1995; and Brian Killen's Moscow report, Reuter, 24 November 1995, via America On-Line, 1437 GMT, 24 November 1995.

70. See the instructive article by the Chief of the 12th GUMO, Colonel General Yevgeniy Petrovich Maslin, "Nuclear Weapons: Results and Prospects," Vooruzheniye, politika, konversiya, no. 4 (7), 1995, as translated in JPRS-UMA-95-026.

71. Ibid.

72. Anton Surikov and Igor Sutyagin, "The Movement and Storage of Russian Nuclear Weapons," Jane's Intelligence Review, May 1994, pp. 202-203.
73. Vadim Markushin, "Prestupnym rukam do nashey yadernoy bomby ne dotyanut'sya" (Criminal hands will not reach our nuclear bomb), Krasnaya zvezda, 1 July 1994.
74. Interview with Colonel General Yevgeniy Maslin by Vladimir Orlov, "A Threat of Nuclear Terrorism Exists in Russia," Moskovskiy novosti, no. 44, 25 June-2 July 1995, as translated in The Current Digest of the Post-Soviet Press, vol. XLVII, no. 25, 1995, p. 26. (Emphasis added).
75. These include launch sites, rocket technical bases, assembly and disassembly facilities, and other operational-level storage facilities for nuclear components. Surikov and Sutyagin, "The Movement and Storage of Russian Nuclear Weapons," addresses some of these sites.
76. Nosov, "Army: Everything's for Sale." Amount cited in 1993-94 rubles.
77. Yelena Matveyeva, "Airforce-Style Charter Flights," Moscow News, no. 4, 211 January 1993.
78. "A total nightmare", Izvestiya, 17 March 1995, as translated in JPRS-TAC-95-012-L. By fall 1995, Russian specialists were just as concerned about the problem, which seemed to have no promise of early resolution. The paper by L. P. Malyshev, "Problemy obespecheniya ekologicheskoy i tekhnologicheskoy bezopasnosti v protsessakh radikal'nogo sokrashcheniya strategicheskikh vooruzheniy Rossii" (Problems of supporting ecological and technological security in the process of radically reducing Russian strategic weapons), presented at the conference "Evolving Post-Cold War Security Issues," Moscow, 12-14 September 1995 reiterated the dangers associated with decommissioning submarines.
79. Viktor Litovkin, "Raspad: Uglovnyy protsess nad tremya ofitserami Severnogo flota" (Breakdown: Criminal trial of three Northern fleet officers), Izvestiya, 12 May 1995; Charles Hanley, "Doomsday Bazaar," Part II, Associated Press, 27 March 1995; and Mikhail Kulik, "Exclusive: Some Problems of Storing Nuclear Materials in the Northern Fleet," Yadernyy kontrol: Obozreniye po problemam oruzhiya massovogo unichtozheniya v Rossii i novykh nezavisimyykh gosudarstvakh (Nuclear control: Review of problems of weapons of mass destruction in Russian and the newly independent states), February 1995, as translated in FBIS-SOV-95-046-S.
80. Lev Lin, "Too Many Cooks . . . Defense Ministry Will Once Again Be Its Own Nuclear Controller," Kuranty, 15 August 1995, as translated in FBIS-SOV-95-158, pp. 26-27.
81. For a typical, bland Soviet explanation of Chemical Troops' missions, see N. V. Ogarkov, ed., "Khimicheskiye voiska," Voyennyy entsiklopedicheskiy slovar' (Moscow: Voenizdat, 1983), p. 794.
82. This is despite the Soviet 1987 decision to stop producing such agents, international agreements, and numerous reassurances about the "strict military security" maintained over existing stocks.
83. I. P. Beletskaya, "Russian Chemical Weapons," Vestnik Rossiyskoy akademii nauk, February 1995, as translated in JPRS-UST-95-025.
84. Ibid. The "underestimation" case is made particularly strongly in Lev Fedorov, "We Were Preparing for an All-Out Chemical War," Obshchaya gazeta, 26 January 1995, as translated in FBIS-SOV-037-S. The 40,000 metric ton figure has continued to be used officially, however, as reiterated by Lieutenant General Yuriy Tarasevich, Deputy Chief of the Radiation, Chemical, and Biological Protection Troops in Yuriy Golotyuk, "Russia Embarks on Destruction of Combat Poison Gases. Gas Attack in Tokyo Subway Prompts Russian President to Sign Edict," Segodnya, 28 March 1995, as translated in FBIS-SOV-95-067.

85. Scott Parrish, "General Denies Russia Has 100,000 Tons of Chemical Weapons," OMRI Daily Digest, no. 228, Part I, 22 November 1995. The charge was made by Aleksei Yablokov, chief of the Interagency Commission on Ecological Security of the Russian Security Council.

86. According to Golotyuk, "Russian Embarks on Destruction," the destruction of chemical munitions is scheduled to begin by 1997 at two of the seven sites (Shikany and a Urals area military base in the Udmurtiya Oblast). All 40,000 metric tons are to be destroyed by 2005.

87. Fedorov, "We Were Preparing for an All-Out Chemical War."

88. "Russia's Chemical Arsenal Not Safe From Thievery," New York Times News Service, 1 October 1995. See also Oleg Zharov, "Blister Action Disarmament: A 'New Guy' in the Class," Novaya Yezhednevaya Gazeta, 7 February 1995, as translated in FBIS-SOV-95-031 FBIS-SOV-95-031.

89. Interview with Leo Fedorov, "Russian Expert Discusses Sarin Incident," Nihon Keizai Shimbun, 18 April 1995, as translated in FBIS-EAS-95-079.

90. See, for example, Kazutaka Iijima, "General Rules Out Possibility of Sarin Gas Proliferation," Manichi Shimbun, 10 April 1995, as translated in FBIS-SOV-95-073; ITAR-TASS Report, 0855 GMT, 29 March 1995, as translated in FBIS-SOV-95-063; ITAR-TASS Report, 1544 GMT, 23 March 1995, as translated in JPRS-TAC-95-012-L; Interview with Leo Fedorov, "Russian Expert Discusses Sarin Incident"; Interview with Academician A. Kuntsevich by Valentina Nikiforova and Aleksandr Chernyak, Pravda, 4 April 1995, as translated in JPRS-TAC-95-012-L.

91. Iijima, "General Rules Out Possibility of Sarin Gas Proliferation."

92. The charges were released by FSB Chief Mikhail Barsukov. Leonid Beres and Aleksandr Koreyskiy, "Well-Known Scientist's Travails," Kommersant-Daily, 24 October 1995, as translated in EVP Press Digest, 24 October 1995.

93. Andrey Vaganov, "Chemist's Case. Part Two. Academician Kuntsevich Thinks That Someone is Settling Political Scores With Him," Nezavisimaya gazeta, 25 October 1995, as translated in EVP Press Digest, 25 October 1995; Beres and Koreyskiy, "Well-Known Scientist's Travails"; Penny Morvant, "Senior Official Accused of Smuggling Chemical Weapons," OMRI Daily Digest, no. 206, Part I, 23 October 1995; and "Probe Focuses on Ex-Soviet Weapons Chief," Associated Press Report, 24 October 1995.

94. There was also the suspicion that these charges were made to encourage greater financial aid from the US and the West, since it demonstrated the "proliferation" consequences of an impoverished weapons industry.

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